

FLUOROIODOCARBON BLENDS AS CFC AND HALON REPLACEMENTS

ABSTRACT OF THE DISCLOSURE

5        A new set of effective, environmentally safe, nonflammable, low-toxicity  
.. refrigerants, solvents, foam blowing agents, propellants, and firefighting agents is  
disclosed. The agents are clean, electrically nonconductive, and have short  
atmospheric lifetimes, zero ozone-depletion potential, and low global warming  
potentials. The agents comprise at least one fluoroiodocarbon agent satisfying the  
10 general formula  $C_aH_bBr_cCl_dFeIfN_gO_h$ , wherein a is between and including 1 and  
8; b is between and including 0 and 2; c, d, g, and h are each between and  
including 0 and 1; e is between and including 1 and 18; and f is between and  
including 1 and 2, either neat or mixed with additives selected from the group  
consisting of: alcohols, esters, ethers, fluoroethers, hydrocarbons,  
15 hydrofluorocarbons, and perfluorocarbons.